Amendments to the Claims:

Please cancel Claims 3 and 4 without prejudice.

This listing of claims will replace all prior versions, and listings, of claims in

the application:

Listing of Claims:

1. (Currently Amended) A method of generating optical data encoded

in a first format, said method comprising:

generating said optical data encoded in a second format, wherein said

generating includes:

generating a first optical data encoded in said first format, said first

optical data having a first level of jitter; and

optically retiming said first optical data to reduce jitter associated

with said first optical data such that said first optical data is converted to a second

optical data encoded in said second format, wherein said second optical data has

a second level of jitter, and wherein said second optical data represents said

optical data encoded in said second format;

inputting, into an optical pulse stretcher, said optical data encoded in said

[[a]] second format;

using said optical pulse stretcher to convert said optical data encoded in

said second format to said optical data encoded in said first format; and

outputting from said optical pulse stretcher said optical data encoded in

said first format, wherein said optical data encoded in said first format has a third

level of jitter.

- 2. (Currently Amended) The method as recited in Claim 1 wherein said optical data encoded in said second format has a first level of jitter, and wherein said optical data encoded in said first format has a second third level of jitter which is no greater than said first second level of jitter.
 - 3. (Cancelled)
 - 4. (Cancelled)
 - 5. (Original) The method as recited in Claim 1 further comprising: transmitting said optical data encoded in said first format.
- 6. (Original) The method as recited in Claim 1 wherein said optical pulse stretcher comprises a birefringent medium.
- 7. (Original) The method as recited in Claim 6 wherein said birefringent medium is an optical fiber.
- 8. (Original) The method as recited in Claim 7 wherein said optical fiber is a polarization maintaining fiber.
- 9. (Original) The method as recited in Claim 1 wherein said first format is an optical NRZ (non-return-to-zero) format and wherein said second format is an optical RZ (return-to-zero) format.
 - 10. (Original) A system, comprising:

an optical data generator adapted to generate a first optical data encoded in a first format, said first optical data having a first level of jitter;

an optical retiming device adapted to receive said first optical data and adapted to reduce jitter associated with said first optical data by converting said first optical data to a second optical data encoded in a second format, wherein said second optical data has a second level of jitter, and wherein said optical retiming device outputs said second optical data; and

an optical pulse stretcher adapted to receive said second optical data, adapted to convert said second optical data to a third optical data encoded in said first format, and adapted to output said third optical data encoded in said first format, and wherein said third optical data has a third level of jitter.

- 11. (Original) The system as recited in Claim 10 wherein said third level of jitter is no greater than said second level of jitter.
- 12. (Original) The system as recited in Claim 10 wherein said optical data generator comprises a light source, a modulator adapted to receive light from said light source, a multiplexer coupled to said modulator and adapted to provide electrical data encoded in said first format, and a clock for clocking said multiplexer.
- 13. (Original) The system as recited in Claim 10 wherein said optical retiming device comprises a modulator driven by a clock signal such that said modulator operates as an optical AND gate on said first optical data encoded in said first format and having said first level of jitter.
- 14. (Original) The system as recited in Claim 10 wherein said optical pulse stretcher comprises a birefringent medium.
- The system as recited in Claim 14 wherein said 15. (Original) birefringent medium is an optical fiber.

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- 16. (Original) The system as recited in Claim 15 wherein said optical fiber is a polarization maintaining fiber.
- 17. (Original) The system as recited in Claim 10 wherein said first format is an optical NRZ (non-return-to-zero) format and wherein said second format is an optical RZ (return-to-zero) format.
- 18. (Currently Amended) An optical pulse stretcher comprising:

 an optical retiming device adapted to receive optical data encoded in a

 first format and adapted to reduce jitter associated with said optical data by

 converting encoding to a second format, wherein said optical data encoded in

 said first format has a first level of jitter, and wherein said optical data encoded in

 said second format has a second level of jitter;

an input for receiving <u>said</u> optical data encoded in a <u>first said second</u> format;

means for converting said optical data encoded in said first second format to optical data encoded in a second said first format; and

an output for outputting said optical data encoded in said second first format, wherein said optical data encoded in said first format has a third level of <u>jitter</u>.

- 19. (Currently Amended) The optical pulse stretcher as recited in Claim
 18 wherein said optical data encoded in said first format has a first level of jitter,
 and wherein said optical data encoded in said second format has a second said
 third level of jitter which is no greater than said second first level of jitter.
- 20. (Original) The optical pulse stretcher as recited in Claim 18 wherein said means for converting comprises a birefringent medium.

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- 21. (Original) The optical pulse stretcher as recited in Claim 20 wherein said birefringent medium is an optical fiber.
- 22. (Original) The optical pulse stretcher as recited in Claim 21 wherein said optical fiber is a polarization maintaining fiber.
- 23. (Currently Amended) The optical pulse stretcher as recited in Claim 18 wherein said first format is an optical NRZ (non-return-to-zero) RZ (return-to-zero) format and wherein said second format is an optical RZ (return-to-zero) NRZ (non-return-to-zero) format.

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